

Analytical Report 383929

for

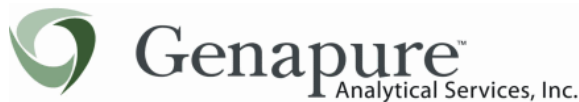
ES Consultants, Inc. - Kendall

Project Manager: Lucas Barroso-Giachetti

Biscayne Landing

2010037

12-AUG-10



3231 NW 7th Avenue, Boca Raton, FL 33431

Ph:(561) 447-7373 Fax:(561) 447-6136

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)

Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)

New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)

Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL00449):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)

North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)



12-AUG-10

Project Manager: **Lucas Barroso-Giachetti**
ES Consultants, Inc. - Kendall
7700 N. Kendall Dr.
Suite # 607
Miami, FL 33156

Reference: XENCO Report No: **383929**
Biscayne Landing
Project Address:

Lucas Barroso-Giachetti:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 383929. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 383929 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Christina Raschke

Office Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 383929

ES Consultants, Inc. - Kendall, Miami, FL

Biscayne Landing

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AM-2	W	Aug-02-10 11:30		383929-001
AM-1	W	Aug-02-10 12:30		383929-002



CASE NARRATIVE

Client Name: ES Consultants, Inc. - Kendall

Project Name: Biscayne Landing



Project ID: 2010037

Work Order Number: 383929

Report Date: 12-AUG-10

Date Received: 08/02/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-817620 Fecal Coliform

SM9222D

Batch 817620, Fecal Coliform RPD is outside the QC limit. This is most likely due to sample non-homogeneity. The parent sample is 383893-006.

Batch: LBA-818434 Chrophyll A

None

ES Consultants, Inc. - Kendall, Miami, FL
Biscayne Landing

Sample Id: AM-2	Matrix: Surface Water	% Moisture:
Lab Sample Id: 383929-001	Date Collected: Aug-02-10 11:30	
	Date Received: Aug-02-10 14:35	

Analytical Method: Chrophyll A						Prep Method: SM10200H_EXT		
Analyst: RAF		Date Prep: Aug-03-10 12:00		Tech: RAF				
Seq Number: 818434								
Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Chlorophyll A	42617-16-3	20.3	5.00	2.00	MGM3	08/11/10 15:00		1
Analytical Method: Fecal Coliform						Prep Method:		
Analyst: RAF		Date Prep:		Tech: RAF				
Seq Number: 817620								
Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Fecal Coliform		146	2.00	2.00	cfu/100ml	08/02/10 15:15		2

ES Consultants, Inc. - Kendall, Miami, FL
Biscayne Landing

Sample Id: AM-1	Matrix: Surface Water	% Moisture:
Lab Sample Id: 383929-002	Date Collected: Aug-02-10 12:30	
	Date Received: Aug-02-10 14:35	

Analytical Method: Chrophyll A						Prep Method: SM10200H_EXT		
Analyst: RAF		Date Prep: Aug-03-10 12:00		Tech: RAF				
Seq Number: 818434								
Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Chlorophyll A	42617-16-3	49.3	5.00	2.00	MGM3	08/11/10 15:00		1
Analytical Method: Fecal Coliform						Prep Method:		
Analyst: RAF		Date Prep:		Tech: RAF				
Seq Number: 817620								
Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Fecal Coliform		120	2.00	2.00	cfu/100ml	08/02/10 15:15		2

FLORIDA Flagging Criteria

- A** Value reported is the mean (average) of two or more determinations. This code shall be used if the reported value is the average of results for two or more discrete and separate samples. These samples shall have been processed and analyzed independently. Do not use this code if the data are the result of replicate analysis on the same sample aliquot, extract or digestate.
- B** Results based upon colony counts outside the acceptable range. This code applies to microbiological tests and specifically to membrane filter colony counts. The code is to be used if the colony count is generated from a plate in which the total number of coliform colonies is outside the method indicated ideal range. This code is not to be used if a 100 mL sample has been filtered and the colony count is less than the lower value of the ideal range.
- F** When reporting species: F indicates the female sex. Otherwise it indicates RPD value is outside the acceptable range.
- H** Value based on field kit determination; results may not be accurate. This code shall be used if a field screening test (i.e., field gas chromatograph data, immunoassay, vendor-supplied field kit, etc.) was used to generate the value and the field kit or method has not been recognized by the Department as equivalent to laboratory methods.
- I** The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J** Estimated value. A "J" value shall be accompanied by a narrative justification for its use. Where possible, the organization shall report whether the actual value is less than or greater than the reported value. A "J" value shall not be used as a substitute for K, L, M, T, V, or Y, however, if additional reasons exist for identifying the value as estimate (e.g., matrix spiked failed to meet acceptance criteria), the "J" code may be added to a K, L, M, T, V, or Y. The following are some examples of narrative descriptions that may accompany a "J" code: .
 - J1: No known quality control criteria exist for the component;
 - J2: The reported value failed to meet the established quality control criteria for either precision or accuracy (the specific failure must be identified);
 - J3: The sample matrix interfered with the ability to make any accurate determination;
 - J4: The data are questionable because of improper laboratory or field protocols (e.g., composite sample was collected instead of a grab sample).
 - J5: The field calibration verification did not meet calibration acceptance criteria.
 - J6: QC protocol not followed.

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

11381 Meadowglen Lane Suite L Houston, Tx 77082-2647
 11078 Morrison Rd., Suite D, Dallas, TX 75229
 5309 Wurzbach, Ste 104 San Antonio TX 78238
 2505 N. Falkenburg Rd., Tampa, FL 33619
 5757 NW 158th St, Miami Lakes, FL 33014

Phone	Fax
(281) 589-0692	(281) 589-0695
(972) 481-9999	(972) 481-9998
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555

J7: B/A results for Chlorophyll does not meet 1 - 1.7 ratio.

- K** Off-scale low. Actual value is known to be less than the value given. This code shall be used if:
1. The value is less than the lowest calibration standard and the calibration curve is known to be non-linear; or
 2. The value is known to be less than the reported value based on sample size, dilution. This code shall not be used to report values that are less than the laboratory practical quantitation limit or laboratory method detection limit.
- L** Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range or highest calibration standard) and the calibration curve is known to exhibit a negative deflection.
- M** When reporting chemical analyses: presence of material is verified but not quantified; the actual value is less than the value given. The reported value shall be the laboratory practical quantitation limit. This code shall be used if the level is too low to permit accurate quantification, but the estimated concentration is greater than the method detection limit. If the value is less than the method detection limit use "T" below.
- N** Presumptive evidence of presence of material. This qualifier shall be used if:
1. The component has been tentatively identified based on mass spectral library search; or
 2. There is an indication that the analyte is present, but quality control requirements for confirmation were not met (i.e., presence of analyte was not confirmed by alternative procedures).
- O** Sampled, but analysis lost or not performed.
- Q** Sample held beyond the accepted holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for sample preparation or analysis.
- T** Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.
- U** Indicates that the compound was analyzed for but not detected. This symbol shall be used to indicate that the specified component was not detected. The value associated with the qualifier shall be the laboratory method detection limit. Unless requested by the client, less than the method detection limit values shall not be reported (see "T" above).
- V** Indicates that the analyte was detected in both the sample and the associated method blank. Note: the value in the blank shall not be subtracted from associated samples.

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

11381 Meadowglen Lane Suite L Houston, Tx 77082-2647
 11078 Morrison Rd., Suite D, Dallas, TX 75229
 5309 Wurzbach, Ste 104 San Antonio TX 78238
 2505 N. Falkenburg Rd., Tampa, FL 33619
 5757 NW 158th St, Miami Lakes, FL 33014

Phone	Fax
(281) 589-0692	(281) 589-0695
(972) 481-9999	(972) 481-9998
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555

- Y** The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
 - Z** Too many colonies were present (TNTC); the numeric value represents the filtration volume.
 - ?** Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
 - * Not reported due to interference.
 - .
- The following codes deal with certain aspects of field activities. The codes shall be used if the laboratory has knowledge of the specific sampling event. The codes shall be added by the organization collecting samples if they apply:
- D** The sample result was reported from a dilution.
 - E** Indicates that extra samples were taken at composite stations.
 - R** Significant rain in the past 48 hours. (Significant rain typically involves rain in excess of 1/2 inch within the past 48 hours.) This code shall be used when the rainfall might contribute to a lower than normal value.
 - !** Data deviate from historically established concentration ranges.
 - +** Outside XENCO's scope of NELAC accreditation

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

11381 Meadowglen Lane Suite L Houston, Tx 77082-2647
 11078 Morrison Rd., Suite D, Dallas, TX 75229
 5309 Wurzbach, Ste 104 San Antonio TX 78238
 2505 N. Falkenburg Rd., Tampa, FL 33619
 5757 NW 158th St, Miami Lakes, FL 33014

Phone	Fax
(281) 589-0692	(281) 589-0695
(972) 481-9999	(972) 481-9998
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



ES Consultants, Inc. - Kendall, Miami, FL
Biscayne Landing

Sample Id: 570314-1-BLK		Matrix: WATER					
Lab Sample Id: 570314-1-BLK							
Analytical Method: Chrophyll A				Prep Method: SM10200H_EXT			
Date Analyzed: Aug-11-10 15:00		Analyst: RAF		Date Prep: Aug-03-10 12:00		Tech: RAF	
Seq Number: 818434							
Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chlorophyll A	42617-16-3	U	5.00	2.00	MGM3	U	1



ES Consultants, Inc. - Kendall, Miami, FL
Biscayne Landing

Sample Id: 817620-1-BLK		Matrix: WATER					
Lab Sample Id: 817620-1-BLK							
Analytical Method: Fecal Coliform				Prep Method:			
Date Analyzed: Aug-02-10 14:20		Analyst: RAF		Date Prep:		Tech: RAF	
Seq Number: 817620							
Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Fecal Coliform		U	1.00	1.00	cfu/100ml	U	1

Project Name: Biscayne Landing

Work Order #: 383929

Lab Batch #: 818434

Project ID: 2010037

Date Analyzed: 08/11/2010

Date Prepared: 08/03/2010

Analyst: RAF

QC- Sample ID: 383929-001 D

Batch #: 1

Matrix: Surface Water

Reporting Units: MGM3

SAMPLE / SAMPLE DUPLICATE RECOVERY

Chrophyll A	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chlorophyll A	20.3	20.5	1	20	

Lab Batch #: 817620

Date Analyzed: 08/02/2010

Date Prepared: 08/02/2010

Analyst: RAF

QC- Sample ID: 383893-006 D

Batch #: 1

Matrix: Surface Water

Reporting Units: cfu/100ml

SAMPLE / SAMPLE DUPLICATE RECOVERY

Fecal Coliform	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Fecal Coliform	30.0	10.0	100	25	F

Lab Batch #: 817620

Date Analyzed: 08/02/2010

Date Prepared: 08/02/2010

Analyst: RAF

QC- Sample ID: 383912-002 D

Batch #: 1

Matrix: Water

Reporting Units: cfu/100ml

SAMPLE / SAMPLE DUPLICATE RECOVERY

Fecal Coliform	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Fecal Coliform	<1.00	<1.00	NC	25	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Genapure[™]
Analytical Services, Inc.

3231 NW 7th Ave., Boca Raton, FL 33431
www.genapure.com

CHAIN OF CUSTODY RECORD

Log# 3839124 T#S Quote: Page of

LAB ANALYSIS									
Company Name:	ES Consultants PO#2010031								
Address:	700 N. Pinehill Dr.								
City:	Miami State: FL Zip: 33156								
Attn:	Lucas Browne for Potomac								
email:	Lucas.Browne@esconsultants.net								
Project Name:	Biscayne Landfill Proj#2010031								
Sample Signature:	[Signature] Phone# 305-410-8183								
#	Sample Label (Client ID)	Collect Date	Collect Time	Matrix Code*	Field Filtered	Integrity OK(Y/N)	Total # of containers	Parameters	Sample
1	MW-1	6/16/04	11:35	GW	X		1		TRC
2	AM-2	8/6/10	11:30	SW			2		pH
3	AM-1	8/6/10	12:00	SW			2		Pres Codes
4									
5									
6									
7									
8									
9									
10									

Container Type Codes
AV Amber Vial
CV Clear Vial
P Plastic
AL Amber Litter
CL Clear Litter
AP Amber Plastic
AG Amber Glass
SJ Soil Jar
G Gallon Jug
Other _____
Size(s): 20z, 40z, 80z, 160z, 320z or 1L, 40ml other
Example: 40zP = 40z Plastic, 80zS = 80z Soil Jar

Matrix Codes*
SD Solid Waste
SO Soil
SE Sediment
OL Petroleum
NE Nonaqueous
ML Misc. Liquid
GW Ground Water
EFF Effluent
INF Influent
WW Waste Water
AFW Analyte Free Water
DW Drinking Water
SU Surface Water
SQ Aquatic
SW Source Water
A Air
O Other (Please Specify)

Pres/Codes
A. None
B. HNO₃
C. H₂SO₄
D. NaOH
E. HCL
F. MeOH
G. Na₂SO₃
H. NaHSO₄
I. Ice
J. MCAA
K. Zn Acetate
O. Other

REMARKS	
1	160zP
2	
3	
4	
5	
6	
7	
8	
9	
10	

QA/QC Report Level
None 1 2 3 Other _____
Short Hold
Signature _____ Date Required _____
Requisitioned by _____ Affiliation _____
Received by _____ Date _____
COC OK Y N Affiliation _____ Date _____
Initials _____
Required State Certification _____

Coolers #/s _____
Lab Use Only
Sample INTACT upon arrival? Yes No NA
Received on Wet Ice? Temp _____
Proper Preservatives Indicated? _____
Received within holding time? _____
Custody seals intact? _____
Volatile m/c'd without headspace? _____
Proper Containers Used? _____

ORIGINAL



Prelogin/Nonconformance Report- Sample Log-In

Client: ES consultants

Date/ Time Received: 08.2.10

WO ID #: 343929

Project Name: Ricayne Landing

Name of Sample Receipt Person: J&Z

Name of Sample Login Person: J&Z

Checklist completed by/Date/Time: J&Z

Acceptable Temperature Range: 2-6° C

Acceptable pH Range(s):

<2 for samples preserved with HNO₃, HCL, H₂SO₄

>10 for samples preserved with NaAsO₂+NaOH, ZnAc+NaOH

Delivered by/Airbill #(s): Frankie

PM Signature/Date: _____

Temperature Measuring device used: SC#109

Sample Receipt Checklist

#	*Temperature of cooler(s)?	# of Coolers			Σ °C
#2	*Shipping container in good condition?	<u>YES</u>	No	None	
#3	*Samples received on ice?	<u>YES</u>	No	N/A	Blue/Water
#4	*Custody Seals intact on shipping container/ cooler?	Yes	No	<u>N/A</u>	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	<u>N/A</u>	
#6	Custody Seals Signed and dated for Containers/coolers/bottles	Yes	No	<u>N/A</u>	
#7	*Chain of Custody present?	<u>YES</u>	No		
#8	Sample instructions complete on Chain of Custody?	<u>YES</u>	No		
#9	Any missing/extra samples?	Yes	<u>NO</u>		
#10	Chain of Custody signed when relinquished/ received?	<u>YES</u>	No		
#11	Chain of Custody agrees with sample label(s)?	<u>YES</u>	No		
#12	Container label(s) legible and intact?	<u>YES</u>	No		
#13	Sample matrix/ properties agree with Chain of Custody?	<u>YES</u>	No		
#14	Samples in proper container/ bottle?	<u>YES</u>	No		
#15	Samples properly preserved?	<u>YES</u>	No	N/A	See Notes below
#16	Sample container(s) intact?	<u>YES</u>	No		
#17	Sufficient sample amount for indicated test(s)?	<u>YES</u>	No		
#18	All samples received within hold time?	<u>YES</u>	No		
#19	Subcontract of sample(s)?	Yes	<u>NO</u>		
#20	VOC samples have zero headspace (less than 1/4 inch bubble)?	YES	No	<u>N/A</u>	

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Notes on pH check: _____

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

383929

Work Order Number:

Chain of Custody Number(s):

Tests	Container Type/ Pres.	gal GA/ 32oz NM GA/ 32oz NM GA/ 32oz NM GA/ 32oz NM GA/ 32oz WM GA/ VOA/ VOA/ VOA/ 120mL P.W. Pill/ 4oz Plastic/ 4oz Plastic/ 250mL HDPE/ 250mL HDPE/ 250mL HDPE/ 500mL HDPE/ 500mL HDPE/ 500mL HDPE/ 500mL HDPE/ 1L HDPE/ 1L HDPE/ 9oz GC/ 9oz GC/ 9oz GC/ 4oz GC/ 4oz GC/ 4oz GC/ 2oz GC/ 2oz GC/ Tedar Bag Ampules/ Other/ Comments
10		
9		
8		
7		
6		
5		
4		
3		
2		
1		

Abbreviations:

Gal GA = One gallon amber

32oz N/M GA = 32 oz Amberglass

VOA = 40mL vials

32oz W/M GA = 32 oz Wide Mouth Amberglass

1L HDPE = 1L (1000mL) Plastic Bottle

500mL HDPE = 500mL Plastic Bottle

250mL HPDE = 250mL Plastic Bottle

80% GC = 80% Soil Jgr

60Z GC = 60Z Soil Jar
40Z GC = 40Z Soil Jar

40% GC = 40% soil jar
20% GC = 20% soil jar

120mL. Plastic w. pill = PACT

Zip = Ziplock Bag

Zip - Ziprock Bag
4oz Plastic = 4oz Plastic Bottle

$\text{HCl} = \text{Hydrochloric Acid}$

HCl = Hydrochloric Acid
H₂SO₄ = Sulfuric Acid

$\text{H}_2\text{SO}_4 = \text{Sulfuric Acid}$
 $\text{NaOH} = \text{Sodium Hydroxide}$

MeOH = Methanol

MEOH = Methanol
HNO₃ = Nitric Acid

ZnAC = Zinc Acetate

Na₂S₂O₃ = Sodium Thiosulfate

NEHA C. Y. — Assistant Professor, Chh. I. I. I.

NH_4Cl_2 = Ammonium Chloride
DI H₂O = DI Water

DI H₂O = DI Water
MCAA = Monochloroacetic Acid

Reviewed By: